

Reply to Office Action of September 15, 2003

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

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1. (Original) A video browsing system comprising:  
a character screen which displays characters of a video; and  
a main screen which displays video segments corresponding to significant events showing a relation between two displayed characters of said character screen according to a user selection, wherein said relation may be constant or variable.
2. (Original) A system of claim 1, wherein the main screen displays said video segments by a summary data of said video segments.
3. (Original) A system of claim 1, wherein a user selects two characters through the character screen to display the video segments corresponding to significant events showing a relation between the two displayed characters.
4. (Original) A system of claim 1, further comprises a character relation-variable event screen which displays connections between variable relations and significant events.

5. (Original) A system of claim 4, wherein the character relation-variable event screen displays either one or both the variable relations and events by key frames.

6. (Original) A system of claim 1, further comprising:

a relation screen which displays constant relations and variable relations between a character selected from the character screen and related characters, wherein said constant relations and variable relations are displayed in a tree structure; and

a main scene screen which displays significant events corresponding to one of either a constant relation or variable relation selected from the relation screen.

7. (Original) A system of claim 6, wherein the constant relation is displayed on a top level of said tree structure and variable relations are displayed on lower levels of said tree structure.

8. (Original) A system of claim 6, wherein the main scene screen displays the significant events by key frames.

9. (Original) A system of claim 6, further comprising a selection screen wherein the main scene screen displays either one or both main significant events or secondary significant

events corresponding to said relation selected from the relation screen, according to a user selection through said selection screen.

10. (Original) A system of claim 6, further comprising a selection screen wherein the relation screen displays constant relations and variable relations corresponding a relation type selected by a user through said selection screen.

11. (Original) A system of claim 10, wherein a relation type may be one of a family relation, a business relation, or a social relation.

12. (Currently Amended) A video data structure tangibly embodied in a computer-readable medium for a video browsing system comprising:

a visualization description scheme (DS) which includes a highlight view DS for display for displaying event data by a highlight and a key frame view DS for displaying event data as key frames, wherein the highlight view DS is organized into multiple levels which enables a display of multi-levels of highlight data and wherein the key frame view DS is organized into multiple levels which enables a display of multi-levels of summarized data;

a syntactic structure DS which includes information for displaying actual video segments of a video; and

a semantic structure DS which includes additional information describing a the video.

13. (Previously Presented) A video data structure of claim 12, wherein the syntactic structure DS is organized into a segment DS including actual video segment data and a time DS including corresponding temporal positions of each actual video segment data within a the video data.

14. (Previously Presented) A video data structure of claim 13, wherein the semantic structure DS is organized into sub-level structures comprising:

an event DS which includes event information, wherein said event DS is organized into sub-level structures of a reference to segment which includes reference information necessary for displaying a video segment of a video corresponding to events selected by a user and an annotation DS which includes information which connects said selected events with actual positions of said selected events within a the video data and information explaining said selected events;

an object DS which includes object information; and

an event/relation graph DS which includes information on at least one of constant relations between objects, variable relations between objects, or relations between objects and events, wherein said event/object relation graph DS is organized into an entity

relation with sub-level structures of a Reference to Object which connects objects having either a constant relation or variable relation, a Reference to Event which connects events which are significant to a relation between each connected objects, and a relation which includes information on a nature and title of relation between each connected objects.

15. (Currently Amended) A video browsing system comprising:
- a character screen which displays characters of a video; [[and]]
  - a main screen which displays video segments corresponding to significant events showing a relation between two displayed characters of said character screen according to a user selection, wherein said relation may be constant or variable[[.]]; a relation screen which displays constant relations and variable relations between a character selected from the character screen and related characters, wherein said constant relations and variable relations are displayed in a tree structure; and
  - a main scene screen which displays significant events corresponding to one of either a constant relation or variable relation selected from the relation screen.

16. (Original) A system of claim 15, wherein the constant relation is displayed on a top level of said tree structure and variable relations are displayed on lower levels of said tree structure.

17. (Original) A system of claim 15, wherein the character screen, the main screen, the relation screen, and the main scene screen are displayed using a video data structure comprising:

β1 a visualization DS which includes a highlight view DS for display for displaying event data by a highlight and a key frame view DS for displaying event data as key frames, wherein the highlight view DS is organized into multiple levels which enables a display of multi-levels of highlight data and wherein the key frame view DS is organized into multiple levels which enables a display of multi-levels of summarized data;

a syntactic structure DS which includes information for displaying actual video segments of a video; and

a semantic structure DS which includes additional information describing a video.

18. (Original) A system of claim 15, further comprising a selection screen wherein the main scene screen displays either one or both main significant events or secondary significant events corresponding to said relation selected from the relation screen, according to a user selection through said selection screen.

19. (Original) A system of claim 15, further comprising a selection screen wherein the relation screen displays constant relations and variable relations corresponding a relation type selected by a user through said selection screen.

20. (Original) A system of claim 19, wherein a relation type may be one of a family relation, a business relation, or a social relation.

21. (Previously Presented) A video browsing system comprising:  
a character menu configured to displays characters that are part of a video; and  
a video display configured to display video segments from the video, wherein the video segments correspond to events showing a relationship between two displayed characters in said character menu.

22. (Previously Presented) The system of claim 21, wherein the characters are represented by actors in the video.

23. (Previously Presented) The system of claim 21, wherein a user selects two characters through the character menu to display the video segments corresponding to events showing the relationship between the two displayed characters.

24. (Previously Presented) The system of claim 21, further comprises a character relationship-variable event menu configured to display connections between variable relationships and events.

25. (Previously Presented) The system of claim 24, wherein the character relationship-variable event menu configured to display either one or both the variable relationships and events by key frames.

26. (Previously Presented) The system of claim 21, further comprising:

BI a relationship menu configured to display constant relationships and variable relationships between a character selected from the character menu and related characters, wherein said constant relationships and variable relationships are displayed in a tree structure; and

a main scene menu configured to display significant events corresponding at least one a constant relationship and a variable relationship selected from the relationship screen.

27. (Previously Presented) The system of claim 26, wherein the constant relationship is displayed on a top level of said tree structure and variable relationships are displayed on lower levels of said tree structure.

28. (Previously Presented) The system of claim 21, wherein a relationship type between characters is at least one of a family relationship, a business relationship, and a social relationship.



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31 29. (Previously Presented) The system of claim 21, wherein said relationship is at least one of a constant relationship and a variable relationship.

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